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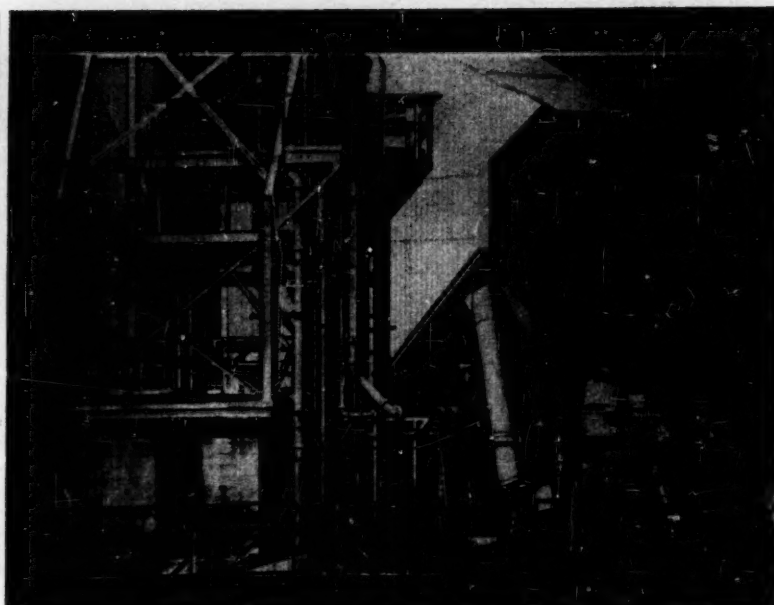
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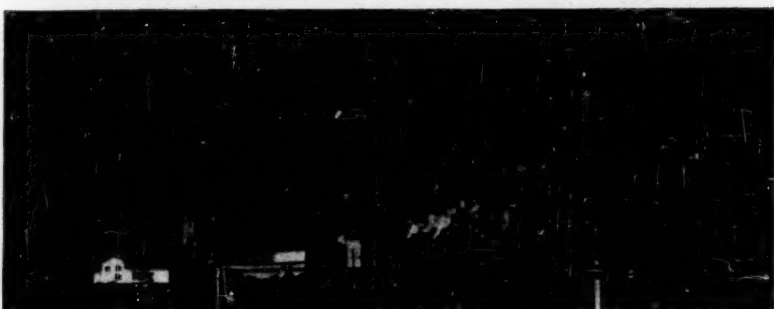
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We print the sprocket holes here to show exactly what the Questar Field Model below impressed on the Tri-X negative. Time, 1/500 second. Normal development with D-76. Some of the background buildings are partially obscured by smoke.



This photograph was taken with a Questar telescope. We think no other instrument could show such sharp detail.

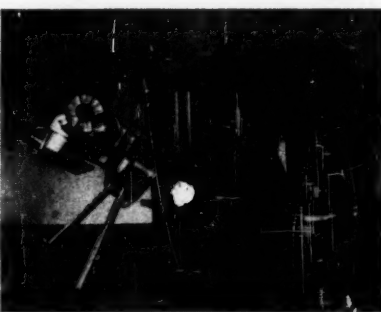
The problem here is one that always limits telescopes and telephoto lenses — how to get sharp images through moving heated air. This air path measures some 4000 feet, and the line of sight is so murderously low that it contains most of the heat waves rising from these intervening sun-drenched fields.

Astronomers tell us that the average atmospheric heat wave is about 4 inches long. Any telescope whose aperture exceeds this size will quickly suffer from the deadly confusion of overlapping mul-

tiple images these air waves cause. Perfect focus becomes impossible.

The 3-pound Questar Field Model at right, has only 3.5 inches aperture. We make each one so fine the hand of man cannot improve it. To meet our extravagant demands, each Questar must perform twice as well as theory predicts, no matter how many sets of conventionally perfect optics we must reject to achieve this extraordinary result.

Thus Questar's superfine small aperture can pierce single heat waves like a slender rapier, and deliver the same wealth of detail that could not reach us from larger instruments of just commercial quality.



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